

UTILITY PATENT APPLICATION TRANSMITTAL
(Large Entity)*(Only for new nonprovisional applications under 37 CFR 1.53(b))*Docket No.
13539(YOR9-2000-0196US1)Total Pages in this Submission
3**TO THE ASSISTANT COMMISSIONER FOR PATENTS**Box Patent Application
Washington, D.C. 20231

Transmitted herewith for filing under 35 U.S.C. 111(a) and 37 C.F.R. 1.53(b) is a new utility patent application for an invention entitled:

UNIVERSAL CONVERSION SERVER

and invented by:

Dimitri Kanevsky
Alexander ZlatsinIf a **CONTINUATION APPLICATION**, check appropriate box and supply the requisite information:☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: _____

Which is a:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: _____

Which is a:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: _____

Enclosed are:

Application Elements

1. ☒ Filing fee as calculated and transmitted as described below
2. ☒ Specification having 20 pages and including the following:
 - a. ☒ Descriptive Title of the Invention
 - b. ☐ Cross References to Related Applications *(if applicable)*
 - c. ☐ Statement Regarding Federally-sponsored Research/Development *(if applicable)*
 - d. ☐ Reference to Microfiche Appendix *(if applicable)*
 - e. ☒ Background of the Invention
 - f. ☒ Brief Summary of the Invention
 - g. ☒ Brief Description of the Drawings *(if drawings filed)*
 - h. ☒ Detailed Description
 - i. ☒ Claim(s) as Classified Below
 - j. ☒ Abstract of the Disclosure

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3

Application Elements (Continued)

3. ☒ Drawing(s) *(when necessary as prescribed by 35 USC 113)*
- a. ☒ Formal Number of Sheets 4
- b. ☐ Informal Number of Sheets _____
4. ☒ Oath or Declaration
- a. ☒ Newly executed *(original or copy)* ☐ Unexecuted
- b. ☐ Copy from a prior application (37 CFR 1.63(d)) *(for continuation/divisional application only)*
- c. ☒ With Power of Attorney ☐ Without Power of Attorney
- d. ☐ DELETION OF INVENTOR(S)
Signed statement attached deleting inventor(s) named in the prior application,
see 37 C.F.R. 1.63(d)(2) and 1.33(b).
5. ☐ Incorporation By Reference *(usable if Box 4b is checked)*
The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied
under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby
incorporated by reference therein.
6. ☐ Computer Program in Microfiche *(Appendix)*
7. ☐ Nucleotide and/or Amino Acid Sequence Submission *(if applicable, all must be included)*
- a. ☐ Paper Copy
- b. ☐ Computer Readable Copy *(identical to computer copy)*
- c. ☐ Statement Verifying Identical Paper and Computer Readable Copy

Accompanying Application Parts

8. ☒ Assignment Papers *(cover sheet & document(s))*
9. ☐ 37 CFR 3.73(B) Statement *(when there is an assignee)*
10. ☐ English Translation Document *(if applicable)*
11. ☐ Information Disclosure Statement/PTO-1449 ☐ Copies of IDS Citations
12. ☐ Preliminary Amendment
13. ☒ Acknowledgment postcard
14. ☒ Certificate of Mailing
- ☐ First Class ☒ Express Mail *(Specify Label No.):* EL068599494US

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13539(YOR9-2000-0196US1)

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3

Accompanying Application Parts (Continued)

15. ☐ Certified Copy of Priority Document(s) (if foreign priority is claimed)

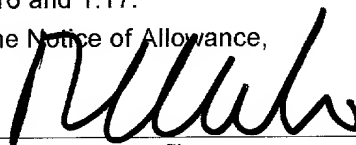
16. ☐ Additional Enclosures (please identify below):

Fee Calculation and Transmittal

CLAIMS AS FILED

For	#Filed	#Allowed	#Extra	Rate	Fee
Total Claims	16	- 20 =	0	x \$18.00	\$0.00
Indep. Claims	4	- 3 =	1	x \$78.00	\$78.00
Multiple Dependent Claims (check if applicable) <input type="checkbox"/>					\$0.00
BASIC FEE					\$690.00
OTHER FEE (specify purpose)					\$0.00
TOTAL FILING FEE					\$768.00

- ☐ A check in the amount of _____ to cover the filing fee is enclosed.
- ☒ The Commissioner is hereby authorized to charge and credit Deposit Account No. 50-0510/IBM as described below. A duplicate copy of this sheet is enclosed.
- ☒ Charge the amount of \$768.00 as filing fee.
 - ☒ Credit any overpayment.
 - ☒ Charge any additional filing fees required under 37 C.F.R. 1.16 and 1.17.
 - ☐ Charge the issue fee set in 37 C.F.R. 1.18 at the mailing of the Notice of Allowance, pursuant to 37 C.F.R. 1.311(b).


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Registration No. 32,608

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Dated: May 31, 2000

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CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10)Applicant(s): **Dimitri Kanevsky, et al.**

Docket No.

13539(YOR9-2000-0196US1)

Serial No.

Unassigned

Filing Date

Herewith

Examiner

Unassigned


Group Art Unit

Unassigned

Invention: **UNIVERSAL CONVERSION SERVER**I hereby certify that this **New Utility Patent Application***(Identify type of correspondence)*

is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: The Assistant Commissioner for Patents, Washington, D.C. 20231

on **May 31, 2000**
(Date)

Mishelle Spina*(Typed or Printed Name of Person Mailing Correspondence)*
*(Signature of Person Mailing Correspondence)***EL068599494US***("Express Mail" Mailing Label Number)***Note: Each paper must have its own certificate of mailing.**

UNIVERSAL CONVERSION SERVER

Background Of The Invention

5 The present invention relates to computer systems. More specifically, the invention relates to methods and systems for allowing a computer to work with input data that is in a format nominally incompatible with the computer.

10 Many forms of computer operating systems, hardware applications exist today, such as Macintosh, IBM, Intel, Dell, etc. A common problem among computer users today, is the difficulties and inconveniences caused by using, or trying to use, data from one operating system on a
15 different operating system. For example, if a person receives through e-mail an application that was in a Macintosh format, that person may not be able to run the application if they have a Dell computer.

20 A commonly used solution for this problem is a filter that is located in the application and that allows certain files to be formatted to another type of application. This solution is inconvenient, however, because it is very difficult to find all the types of
25 filters that would be needed so that every type of file could be used. For example, Microsoft Word file formatted to WordPro file or format file from one version of application to another. Simulation of one operating
30 system in another operating system. For example, DOS is simulated in the Unix operating system.

Another solution is to use a "Universal Driver Server" patent application no. 09/564,619 filed May 4, 2000, that can transform almost any file through a server. For example, if a person receives a game that is compatible only for Macintosh, and the person owns an Intel computer, then that person may go on the Internet to look for the same game in a format that is compatible to their own operating system. This solution works in some cases, but very often, similar software is not found.

Summary Of The Invention

An object of this invention is to provide a procedure that allows a person to use data, from one computer operating system, in a computer having a different operating system.

Another object of the present invention is to provide a universal server online that is able to transform fully any type of file.

Another object of the present invention is to convert file from one application format or version to another.

These and other objectives are attained with a method and system for re-formatting computer files. The method comprises the steps of inputting a data file into a computer, and determining if the data file is compatible with the computer. If the data file or application program is not compatible with the computer or application, the data file or program is transmitted over the Internet to a universal server; and the universal

server transforms the data file or program into a format compatible with the computer, and sends the transformed data file back to the computer.

5 Preferably, the universal server identifies the type of file or application program, and transforms the file into a different format of the same type. Also, in a preferred embodiment, a user of the computer identifies user requirements, these requirements are transmitted to
10 the universal server, and the file is reformatted in accordance with the user requirements.

With the present invention, for example, a person, who owns a Dell computer, may receive a program from a
15 Macintosh user. The person can then go on the Internet, and the sever automatically takes the program and transforms it into a compatible form. The program is then sent back to the person in a usable form. This process can be done with any type of file.

20 We are offering a business model program developers will have agreement with universal conversion server to keep links to their source code. When customer/user pays for license, for example the limited access to the source
25 code will be given to compile it on appropriate operating system.

Further benefits and advantages of the invention will become apparent from a consideration of the following
30 detailed description, given with reference to the accompanying drawings, which specify and show preferred embodiments of the invention.

Brief Description Of The Drawings

5 Figure 1 is a general block diagram illustrating a universal conversion server embodying this invention.

Figure 2 is an example of a database that is used by the universal server of Figure 1.

10 Figure 3 generally illustrates a procedure for reformatting a program.

15 Figure 4 is a flow chart of a preferred universal conversion system.

Detailed Description Of The Preferred Embodiments

20 Figure 1 shows the general block scheme of a universal conversion server. In this service, a network 100 is connected to a computer 101, which may be a personal computer. The computer is connected to a microphone 102 and to a keyboard 103. The computer also has the appropriate driver 110. Voice commands or input are
25 given through the microphone, typed commands are given through the keyboard, and the driver is used to transmit data to disks and compact disks.

30 If, for example, a person may receive data from the Internet in the form of voice data, the person may want to compress the data into another format because the person may not have a compatible driver. In this case,

the person sends the data to a Universal conversion server 104 and states what operation needs to be performed and what operating system they may own. This universal conversion server (UCS) determines what should be done from the user description or from type of file and information about user computer.

The UCS sends the data to an appropriate formatting module. Different methods are available to determine type of file. For example, if the data are audio data, the data are sent to be audio formatted 105. If the data are video data, the data are sent to be video formatted 106; and if the data are animation the data are sent to a server that can format animation data 107. The data can also be sent to a generic compression service 108. It is also indicted to which operating system the data should be formatted, and whether the data should be upgraded or downgraded.

The universal conversion server 104 can define automatically what should be changed or\and how it should be changed. The universal conversion server 104 has access to the user computer 101 via the network 100. It can read from a special system file in the user computer the information about the computer (what is the operational system, what are applications are stored in this computer, e.g. word pro or Microsoft word etc.). The universal conversion server (UCS) can use this information to decide how to change the file that it received from the user. For example, if the UCS received the audio data from the computer 101 and did not receive any explanations what should be done it can do the

following. First, it defines what type of data it received (audio, video etc.). It can define the type of data using different methods. Some of these methods are described in a patent application serial no. 09/137,966. After the UCS defined the type of data and in which operational system (OS) it was formatted it checks what OS is used in the computer 101 and what applications are available in 101 to process this type of data. If the UCS finds that there is some application in the computer that can process this type of data but that the data was initially formatted to be processed by a different application, then the UCS sends the data to an appropriate formatting server with the request to reformat it to the application that is available in the computer 101. For example, if the UCS received a textual data that was formatted for Microsoft word and if the UCS found that the user computer 101 has only Word Pro application, than the UCS sends the textual data to a text formatting server 120 and requests to reformat it from Microsoft Word format to Word Pro format. Similarly the UCS reformat data to the OS system that is used by the user computer 101.

The Universal conversion server is also connected to the Universal Driver 109. The Universal Driver patent application performs some of the conversion operations.

The Universal Driver 109 can be used to read data from a local computer drivers. The Universal Driver is described in the attorney docket 13441. For example, instead of sending data from the computer 101 to the UCS 104 the user requests the UCS to read the data from his

Briefly, this method can be explained as follows: The UCS searches in the module 110 (storage of source codes) whether there are source codes that were used to compile

converted, the data are sent to the Universal Formatting Server.

The Universal Conversion Server checks the User Requirements 200. If this Conversion Server finds that it cannot convert a certain file, it looks in a computer description 206. This computer description can be located on the computer 101 or on the Universal Conversion Server Database. The actual computer description 207 includes four components: row 208 shows the operating system, in this case it is NT; row 209 shows the type of computer, here it is Intel; row 210 shows what driver is being used; and row 211 shows the word processor that is being used. The computer description system is read from a special system file that is located on a computer 115.

Figure 3 explains what needs to be done when a computer's operating system is not compatible with a program. First, the name of the program is read by the Universal Driver. It was explained above that the Universal Driver can read the name of the program and check whether such program is available for a different operating systems. If not, Universal Driver sends the program to the UCS which searches for the source code in order to compile the program. Table 300 shows the features associated with the program. 301 is the link to the program's source code, 302 is the program's executable code, and 303 is the programs's file name. These data are searched in the database of source codes 110, where many source codes are held. If the same name exists among more than one program in the database, the UCS reads the

information from the description module 304. 305 is the license agreement, 306 shows what compilations are allowed, and 307 shows the fees for the recompilations.

5 Figure 4 is a flow chart of the universal conversion system. At step 400, files are entered into the computer (either from the user or from network), and at step 401 the UCS is contacted. At step 402, a check is made to determine whether the file format is compatible with the
10 operating system(OS) in the computer. If the format is not compatible, it means that the file is not recognized by a OS (i.e. on any input media such as CD-ROM, a floppy disk, tape, e-mail, etc.). In this case, the file is sent to the Universal Driver, as represented by step 403.
15 A Universal Driver that may be used is disclosed in U.S. patent application no. _____ for "Universal Driver Server," filed _____ (Attorney Docket 13441), the disclosure of which is herein incorporated by reference.

20 On the Universal Driver system, the data can be reformatted, as represented by step 404, into a format compatible to the OS (for example, audio data can be formatted from OS in Apple to OS in Intel). If, at step 402, it is determined that the file is compatible with
25 the system, then the routine proceeds to step 407.

If the data do not need to be reformatted, the routine proceeds to step 414 and the data are processed as the user requests. Otherwise, the file is sent, to the
30 universal server; and this server checks, at step 407, whether the file is executables -- i.e., programs that were obtained after compilation. If the file is

executable, then, as represented by steps 408 and 409,
the routine checks the Universal Driver to determine
whether the program can be replaced on the Universal
Driver. Copending patent application no. _____
5 (Attorney Docket No. 13441) describes a suitable
Universal Driver that can be used in the practice of this
invention.

If the program can be so replaced, then, at step 410, the
10 program is replaced at the Universal Driver; and then, at
step 411, the program is sent to the user. If,
however, at step 409, the program can not be replaced at
the Universal Driver, then the routine proceeds to step
412, where the UCS checks to determine if the source
15 code exists on the storage of source code 110. If the
source code does not exist, the routine exits. If the
source code exists, then the program is recompiled, at
step 413, in a new OS (using 108), and then the program
is sent to the user.

At step 414, the routine checks for instructions to
format data. First, it check the user instructions. If
they are absent, it checks the computer menu
instructions. After that, data are formatted, at step
20 415, according to the instructions, and then the data are
sent to the user.

While it is apparent that the invention herein disclosed
is well calculated to fulfill the objects stated above,
30 it will be appreciated that numerous modifications and
embodiments may be devised by those skilled in the art,
and it is intended that the appended claims cover all

9 the transforming step includes the step of re-formatting
10 the file in accordance with the user requirements.

1 4. A method according to Claim 1, wherein, when data
2 needs to be converted, the data are sent to a universal
3 conversion server; the universal conversion server checks
4 user requirements; if the universal conversion server
5 finds that the service cannot convert a certain file, the
6 service looks in a computer description; the computer
7 description can be located on the computer or on a
8 universal conversion server database.

1 5. A method according to Claim 1, wherein, when a
2 computer's operating system is not compatible with a
3 program, the program is sent to a Universal Driver where
4 the program is to be formatted; when being formatted, the
5 program is looked over to identify components of the
6 program including links to the program source code, the
7 program's executable code, the program's file name;
8 entering data to a database of source codes, where many
9 source codes are held; and if the same name exists among
10 more than one program in the database UCS reads the
11 information from the description module.

1 6. A method according to Claim 1, wherein file gets
2 converted from one application format or version into
3 another

1 7. A universal program conversion method, comprising the
2 steps:
3

1 if the data file is not compatible with the computer,
2 transmitting the data file over the Internet to a
3 universal server; and

4
5 the universal server, transforming the data file into a
6 format compatible with the computer, and sending the
7 transformed data file back to the computer.

1 13. A program storage device according to Claim 12,
2 wherein the transforming step includes the steps of, the
3 universal server identifying the type of file, and
4 transforming the file into a different format of the same
5 type.

1 14. A program storage device according to Claim 12,
2 further comprising the steps of:

3
4 a user of the computer identifying user requirements; and
5
6 transmitting the user requirements to the universal
7 server; and wherein

8
9 the transforming step includes the step of re-formatting
10 the file in accordance with the user requirements.

1 15. A program storage device according to Claim 12,
2 wherein, when data needs to be converted, the data are
3 sent to a universal conversion server; the universal
4 conversion server checks user requirements; if the
5 universal conversion server finds that the service cannot
6 convert a certain file, the service looks in a computer
7 description; the computer description can be located on

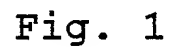


Fig. 1

user requirements		201
convert;		202
text;	msword	203
audio;		204
compress text	ps	205

207	computer description	
208	operational system	NT
209	computer	Intel
210	driver	
211	word processor	

Fig. 2

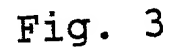


Fig. 3

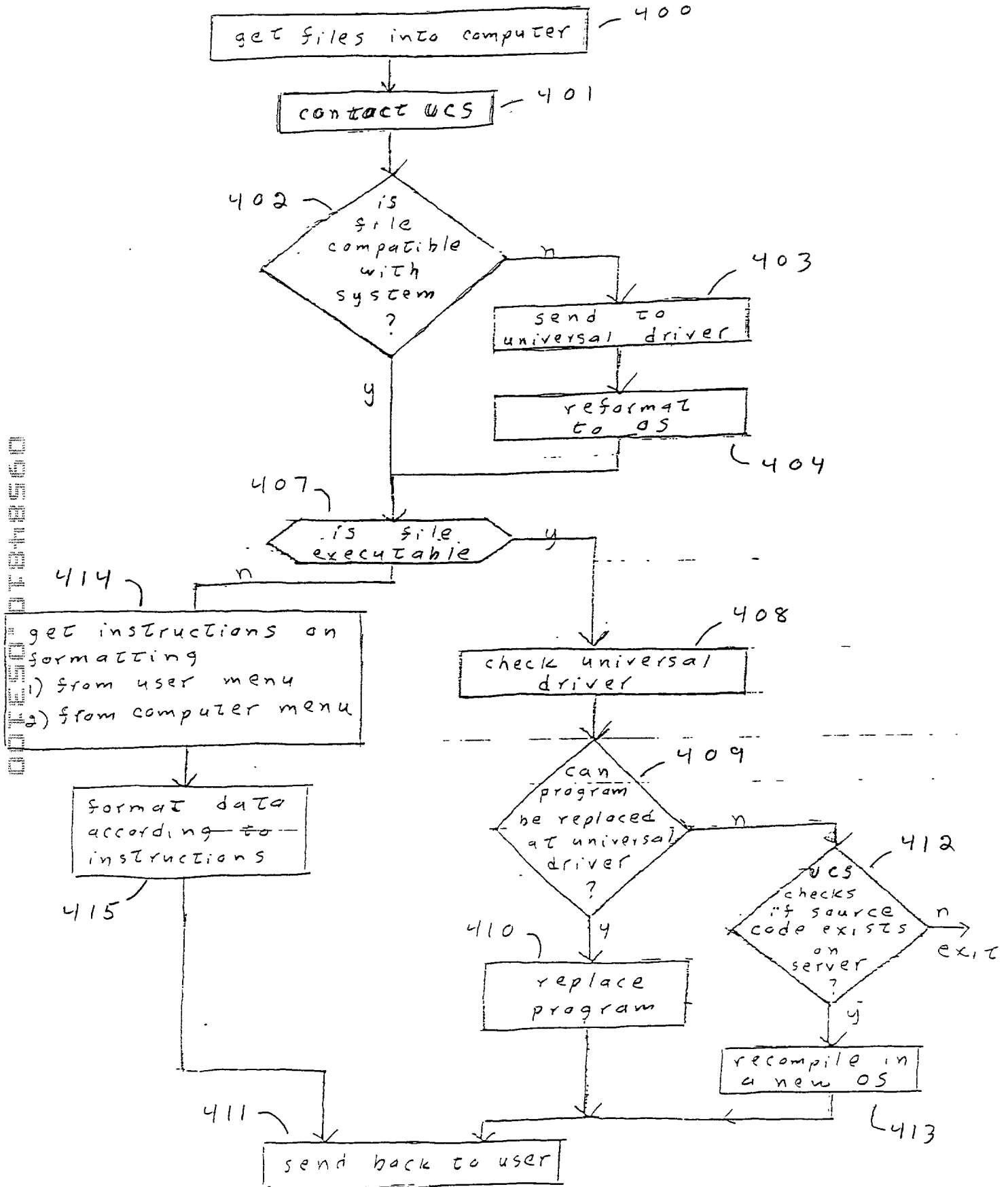


Fig. 4

SSM&P Docket No.:13539
IBM Docket No.:YOR9-2000-0196US1

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name;

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

UNIVERSAL CONVERSION SERVER

the specification of which (check one)

☒ is attached hereto.

_____ was filed on _____ as United States Application Number _____

or PCT International Application Number _____

and was amended on _____ (if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119(a)-(d) or §365(b) of any foreign application(s) for patent or inventor's certificate, or §365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below by checking the box, any foreign application for patent or inventor's certificate, or PCT International application, having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)			Priority Claimed	
(Number)	(Country)	(Day/Month/Year Filed)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
(Number)	(Country)	(Day/Month/Year Filed)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
(Number)	(Country)	(Day/Month/Year Filed)	<input type="checkbox"/> Yes	<input type="checkbox"/> No

☐ I hereby claim the benefit under 35 U.S.C. §119(e) of any United States provisional application(s) listed below.

(Application Number)	(Filing Date)
(Application Number)	(Filing Date)

☐ I hereby claim the benefit under 35 U.S.C. §120 of any United States Application(s), or §365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States, or PCT International application in the manner provided by the first paragraph of 35 U.S.C. §112, I acknowledge the duty to disclose information material to the patentability of this application as defined in 37 CFR §1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

(Application Serial No.)	(Filing Date)	(Status) (patented, pending, abandoned)
(Application Serial No.)	(Filing Date)	(Status) (patented, pending, abandoned)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that willful false statements may jeopardize the validity of the application or any patent issued thereon.

POWER OF ATTORNEY: As a named inventor I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith (list name and registration number).

Manny W. Schecter (Reg. 31,722), Terry J. Ilardi (Reg. 29,936), Christopher A. Hughes (Reg. 26,914), Edward A. Pennington (Reg. 32,588), John E. Hoel (Reg. 26,279), Joseph C. Redmond, Jr. (Reg. 18,753), Douglas W. Cameron (Reg. No. 31,596), Wayne L. Ellenbogen (Reg. No. 43,602), Stephen C. Kaufman (Reg. No. 29,551), Daniel P. Morris (Reg. No. 32,053), Louis J. Percello (Reg. No. 33,206), Jay P. Sbrollini (Reg. No. 36,266), David M. Shofi (Reg. No. 39,835), Robert M. Trepp (Reg. No. 25,933) and Louis P. Herzberg (Reg. No. 41,500).

SSM&P Docket No.:13539
IBM Docket No.:YOR9-2000-0196US1

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